

AMENDED CLAIMS

[received by the International Bureau on 25 May 2005 (25.05.05);
original claims 22-25B are replaced by amended claims 26-30; claim 1 has been amended;

We claim:

1. A method for reducing disease on a crop infected with at least one pathogen, comprising:
5 providing an herbicide resistant crop; and
treating the crop with glyphosate, thereby reducing the effects of the pathogen on the crop.
2. The method according to claim 1, wherein the crop is selected from
10 glyphosate resistant soybeans and glyphosate resistant wheat.
3. The method according to claim 1 or 2, wherein treating the crop comprises at least two separate applications of glyphosate.
- 15 4. The method according to claim 3, wherein the more than two separate applications of glyphosate are applied at least about seven days apart.
5. The method according to claim 1 or 2, wherein treating the crop comprises treating the crop with from greater than about 1.0 kg/ha to about 3.0 kg/ha
20 of glyphosate.
6. The method according to claim 1 or 2, wherein treating the crop comprises treating the crop with from greater than about 1.0 kg/ha to about 2.0 kg/ha of glyphosate.
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7. The method according to claim 1 or 2, wherein treating the crop comprises treating the crop with from about 1.5 kg/ha to about 2.0 kg/ha of glyphosate.
- 30 8. The method of claim 5, wherein treating the crop with glyphosate comprises at least two separate applications of glyphosate.

9. The method of claim 1 or 2, wherein the pathogen is a fungal pathogen.
10. The method of claim 1 or 2, wherein the pathogen is a foliar pathogen.
11. The method of claim 1 or 2, wherein the pathogen is a species of *Rhizoctonia*, *Gaeumannomyces*, *Phakopsora* or *Puccinia*.
12. The method of claim 1 or 2, wherein the pathogen is *Phakopsora pachyrhizi*.
13. The method of claim 12, wherein the crop is glyphosate resistant soybean.
14. The method of claim 1 or 2, wherein the crop is glyphosate resistant wheat.
15. The method of claim 1 or 2, wherein the yield is from about 5% to about 20% higher than a crop not treated with glyphosate.
16. The method of claim 1 or 2, wherein the crop is glyphosate resistant wheat and the crop is treated with glyphosate at a stage between the 3 leaf stage and the flowering stage.
17. The method of claim 1 or 2, wherein the crop is glyphosate resistant soybean and the soybeans and the crop is treated between emergence and the flowering stage.
18. The method of claim 1 or 2, wherein treating the crop with glyphosate comprises treating the crop with glyphosate prior to the display of a symptom of pathogen presence.

19. The method of claim 1 or 2, further comprising harvesting the crop thereby yielding a harvested crop.

5 20. A harvested crop produced by the method of claim 19.

21. A method for reducing disease on a wheat crop with at least one pathogen, comprising:

providing an herbicide resistant wheat crop; and
10 treating the wheat crop with an herbicide after emergence of the herbicide resistant wheat crop, thereby reducing the effects of the pathogen on the wheat crop.

22. The method according to claim 21, wherein the herbicide resistant wheat crop is glyphosate resistant.

15 23. The method according to claim 21, further comprising treating the wheat crop prior to emergence.

24. The method according to claim 21, wherein the herbicide is
20 glyphosate.

25. The method according to claim 21, wherein the herbicide is a 5-enolpyruvylshikimate-3-phosphate synthase inhibitor.

25 26. The method according to claim 21, wherein the pathogen is a soilborne pathogen.

27. The method according to claim 21, wherein the pathogen is a fungal pathogen.

30 28. The method according to claim 21, wherein the pathogen is a species of *Rhizoctonia*, *Gaeumannomyces*, *Phakopsora* or *Puccinia*.

29. The method according to claim 28, wherein the pathogen is *Gaeumannomyces graminis var tritici*.

5 30. The method according to claim 21, wherein the pathogen is a foliar pathogen.

31. The method according to claim 21, wherein the pathogen causes stripe rust, stem rust or leaf rust.

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32. The method according to claim 31, wherein the pathogen is *Puccinia striiformis*.

33. The method according to claim 21, wherein pathogen activity is
15 decreased for at least 21 days after herbicide application.

34. The method of claim 22, wherein the glyphosate resistant wheat crop is treated with from about 0.5 kg/ha to about 2.0 kg/ha glyphosate, thereby increasing the yield of the wheat, wherein the yield is at least about 5% higher than a
20 glyphosate sensitive wheat crop.

35. The method according to claim 21, wherein glyphosate is applied at a density of from about 0.5 kg/ha to about 1.5 kg/ha.

25 36. The method according to claim 21, wherein glyphosate is applied at a density of from about 0.5 kg/ha to about 1.0 kg/ha.

37. The method according to claim 34, wherein the yield is from about 5% to about 20% higher.

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38. The method according to claim 1 or 2, wherein the at least one pathogen is a rust.

39. The method according to claim 38, wherein the rust is selected from the group consisting of stem rust, stripe rust, leaf rust and soybean rust.

5 40. The method according to claim 1 or 2, wherein treating the crop comprises treating the crop with glyphosate at a density of greater than about 1.0 kg/ha of glyphosate

10 41. A method for reducing disease on a crop infected with at least one pathogen, comprising:

 providing an herbicide resistant crop, wherein the crop is selected from glyphosate resistant wheat and glyphosate resistant soybeans;

 treating the crop with glyphosate at a density of greater than about 1.0 kg/ha of glyphosate, thereby reducing the effects of the pathogen on the crop.

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